(a) 
$$x-y=4$$
  
  $x+2y=13$ }

$$x-y=4$$
  $\longrightarrow$   $y=x-4$   
 $x+2y=13$   $\longrightarrow$   $x+2(x-4)=13$   
 $x+2x-8=13$   
 $3x=13+8$   
 $3x=21$   
 $x=\frac{21}{3}$   
 $x=7$   $y=x-4$   
 $y=7-4$   
 $y=7-4$ 

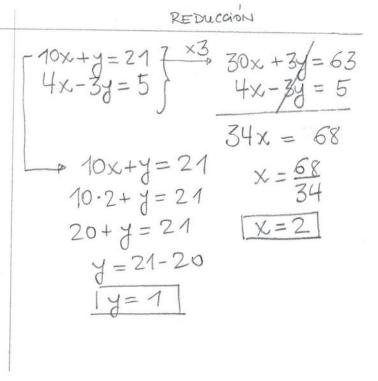
7-4=4

14=31

y = 7-4

# $10x+y=21 \longrightarrow y=21-10x$ 4x-3y=5 4x-3(21-10x)=5 4x-63+30x=5 34x=5+63 34x=68 $x=\frac{68}{34}$ x=2 y=21-10x

SUSTITUGON



### SUSTITUCION

$$x+y=2 \rightarrow y=2-x-x$$
  
 $x-y=4-x-(2-x)=4$   
 $x-2+x=4$   
 $2x-2=4$   
 $2x=6$   
 $x=3$   
 $x=3$   
 $y=2-x$   
 $y=2-x$ 

a) 
$$2x+3y=-5$$
 }  $3x+2y=-5$  }

# REDUCCIÓN

$$x-y=4$$
  
 $x+y=2$   
 $2x=6$   $x=3$   
 $x+y=2$ ;  $x=3$   
 $y=2-3$   
 $y=-1$ 

# Sustituaion

# REDUCCIÓN

2x+3y=-5  
3x+2y=-5  
Multiplicar la privent ecuación per  
-2/3 para consequir la "y" igral  
2x+3y=-5 
$$\frac{x-2}{3}$$
  $\frac{4}{3}$   $\frac{-4}{3}$   $\frac{2}{3}$   $\frac{-4}{3}$   $\frac{2}{3}$   $\frac{-4}{3}$   $\frac{2}{3}$   $\frac{-4}{3}$   $\frac{2}{3}$   $\frac{4}{3}$   $\frac{4}{3}$ 

(e) 
$$0 \frac{x+3y}{2} = 5$$
  
 $0 + \frac{2x-y}{2} = 1$ 

# Sustituaion

① 
$$\frac{x+3y}{2} = 5$$
;  $\frac{x+3y}{2} = \frac{10}{2}$ ;  $x+3y = 10$ ;  $x = 10-3y$  ③

① 
$$4 - \frac{2x - 1}{2} = 1$$
;  $4 - \frac{2(10 - 3y) - 1}{2} = 1$ ;  $4 - \frac{20 - 6y - 1}{2} = 1$ ;  $\frac{8}{2} - \left(\frac{20 - 6y - 1}{2}\right) = \frac{2}{2}$   $8 - 20 + 6y + 1 = 2$ ;  $7y = 2 - 8 + 20$ ;  $7y = 14$ ;  $y = \frac{14}{7}$ ;  $y = \frac{14}{7}$ ;  $y = \frac{14}{7}$ 

3 
$$x = 10 - 34$$
;  $x = 10 - 3 - 2$ ;  $x = 4$ 

### REDUCCION

$$\frac{3x}{2} + \frac{3y}{2} = 5$$

$$4 - \frac{2x}{2} + \frac{1}{2} = 1$$

$$\frac{x}{2} + \frac{3y}{2} = 5$$

$$\frac{6x}{2} - \frac{3y}{2} = 9$$

$$\frac{1}{2} = 14$$
;  $1 = 28$ ;  $x = \frac{28}{7}$ ;  $x = 4$ 

$$0 \frac{x}{2} + \frac{34}{2} = 5; \frac{4}{2} + \frac{34}{2} = 5; 2 + \frac{34}{2} = 5; \frac{4}{2} + \frac{34}{2} = \frac{10}{2}$$

$$4 + 3y = 10 \quad \Rightarrow \quad y = \frac{6}{3} \quad \Rightarrow \quad \boxed{y = 2}$$